Project Na	me:	White Mountain Estates				
Project Nu	ımber:	2004-G017A				
Client:	Client: White Mountain Estates, LLC					
Location:	Approxir	nately 10 miles north of Bishop,				
	Californi	a; approximately 1 mile east of				
intersection of Highway 6 and WME Roa						
Elevation:	Elevation: Approximately 4400 feet MSL					

Excavation Date: (startup)	14-Jul-04
Excavation Method:	Mud Rotary
Boring Diameter:	9 7/8" / 12 1/4"
Well Casing Diameter:	8" PVC
Depth to Groundwater:	203.13 ft btc
Total Depth of Boring:	338 ft btc
Screen Interval(s):	238-338 ft btc
<u> </u>	



		Hammer Wt.						Surface Conditions: Alluvial fan deposits; silty (clayey)
San	ple	(lbs.)		I.D.				to sandy gravel
		Blows /foot	Depth			1		
NR	R	(6"/12"/18")	(feet)	We	ell Construction	Lithology	USCS	Description
				Т	8" 1			*
			0 —	$\nabla\nabla\nabla$	<u> </u>	4000		Silty to fine sandy GRAVEL: lithic fragments of vol-
					Concrete			canic and metasedimentary rocks, and quartz; small
			₅ —			0000		pebbles are present and are subrounded to subangular
					Cement	0000		r · · · · · · · · · · · · · · · · · · ·
			10		seal	0000		•Gravel appears to coarsen, drill stem
						0800		bouncing & chatter
			15			0000		•Increase in sand, fine to coarse grained
			20			3000		11 11
							GM	
			25			0000		11 11
						000 2		
			30		₩ ∇ 2			•Possible perched GW / highly suspect?
						000		
			35		8" dia	0000		•Gravel appears coarser, moderate drill
					blank PVC			stem bouncing & chatter
			40		casing	4000		" "
						0000		
			45					11 11
			. 0		//	3,0,4,0 3,0,4,0	GW/SW	Silty to fine sandy GRAVEL as above but with increase
			50			0000		in fine to coarse grained sand; gravel less abundant
					55	0000		
			55 <u> </u>	-	TOS	0,000	GW	Fine to coarse sandy GRAVEL: lithic fragments appear
						0 0 0 0 C	-	to be mostly dark volcanic/metavolcanic(?) with some
			60			هُ رِکُهُ ہِکُ		quartz; other metamorphic rock fragments present.
						0000		•Increase in sand @ 60 feet
			65 —			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GW/SW	Medium to coarse grained sandy GRAVEL: lithic frag-
					:::: \	80000	, , ~	ments mostly dark volcanics with some small sub-
			70		12 1/4"	D 2 D 2 D		rounded pebbles, some metamorphic fragments; hard
			-		diameter	00000		drilling and drill stem chatter
			75 [—]		overdrill borehole	00000	GP	•Less sand than above; dark lithic frag-
			-			00000		ments & small subrounded pebbles @ 70 ft
			80			\$7,000 \$2,000	SW/GW	SAND with gravel: sand is mostly medium to coarse
						.A. A. A. A. A.	, , =	grained, subangular with trace subrounded, mostly
			85 —				SW	quartz & volcanic & metamorphic lithics; gravel as above
					1/16" -		~	Sand as @ 80 feet
			90		1/4" dia. bird's eye	,50°,00°	GW/SW	GRAVEL with sand: sand is fine to coarse grained, sub-
			, ,		filter	, o v.V 🗢 🗀	311/5W	anular; gravel similar to above
			95 —		gravel		SW	SAND with trace gravel: sand is fine to coarse grained, sub-
			70				S W	angular to trace subrounded, mostly quartz, some lithics
						0.0000000000000000000000000000000000000		angular to trace subrounded, mostly quartz, some fitties

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Boring Diameter: Well Casing Diameter: Depth to Groundwater: Total Depth of Boring:	9 7/8" / 12 1/4' 8" PVC 203.13 ft BTC



San		Hammer Wt. (lbs.)		I.D.			Surface Conditions: Alluvial fan deposits; silty (clayey) to sandy gravel
NR	R	Blows /foot (6"/12"/18")	Depth (feet)	Well Construction	Lithology	USCS	Description
			100		D.S. 0.00	SW	•SAND as @ 95 ft SAND with gravel: sand is fine to coarse grained, subangular; drill cuttings contain
			105		6.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	GW/SW GW	abundant lithic fragments similar to those @ 80 ft GRAVEL: similar to 80 ft sample but less sand
			110		· 6 0, 8 C.		Gravelly SAND: sand is fine to coarse grained, subangular
			115				to subrounded, mostly quartz but with feldspar and other
			120				lithic grains; gravel is generally pebble size, subangular to subrounded; both pebble gravel and lithic fragments
			125			sw	composed of volcanics and other igneous and metamorphics •Gravel content greatly reduced @120 ft
			130	8" d	######################################		
			135	PVC			
			140		٥ ٥ ٥ ٥ ٥ ٥ ٥ ٥ ٥ ٥	GW	Sandy fine GRAVEL: gravel mostly pebble size, subangular to angular fragments of dark volcanic/metavolcanics(?);
			145		\$ 8.00 C		sand is medium to coarse grained, subangular, mostly quartz and other rock fragments
			150		o*a* *0 a		SAND: medium to coarse grained, subangular, mostly quartz and other ingneous and metamorphics
			155				•Trace fine GRAVEL @ 150 ft
			160		00000000000000000000000000000000000000	GW	
			165	l latatal latatal /	1/4"	SW	SAND: medium to coarse grained, subangular, mostly quartz and other ingneous and metamorphics
			170	over	drill hole	GW	•Sandy GRAVEL similar to that @ 160 ft
			175		0.00.08		Gravelly SAND: sand is medium to coarse grained, subangular, mostly quartz and lithics; gravel is fine
			180				•Grain size range fine to coarse sand, no gravel @180 ft
			185	1/10	dia.	sw	•Trace gravel @ 185 ft to 195 ft
			190	bird filter			
			195				

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	прис	Blows /foot	Depth					to standy grants
NR	R	(6"/12"/18")	(feet)	Well Construc	ction	Lithology	USCS	Description
			200		•	9 *9 a	SW	SAND: fine to coarse grained, subangular; with trace of
			205		203 DTW			fine gravel, subangular to angular fragments Silty SAND: fine to medium grained, subangular, quartz and
			210				SM	lithics of igneous(?) composition
			215		8" dia blank			SAND: fine to medium grained, subangular; with trace of
					PVC casing	o o	SW	fine gravel, subangular to angular fragments
			220			0 0	·	
			225			00000	GW	Sandy fine GRAVEL: gravel mostly pebble size, subangular to angular frag- ments of dark volcanic/metavolcanics(?); sand is medium to coarse grained,
			230			0 000	SW	subangular, mostly quartz and other rock fragments
			235			00000		•SAND similar to that @ 220 ft
			240		—238 TOS	00000		
			245			0,000		
			250		12 1/4"			
					diameter overdrill	0000		
			255		borehole	00000		
			260			0000 0000 0000		Sandy GRAVEL: gravel mostly fine grained, subrounded
			265			0000	GW	to angular fragments of dark igneous composition; sand
			270			0000		is fine to coarse grained, subangular, mostly quartz and other igneous(?) rock fragments
			275		0.032" slotted PVC 8"	ઌ૽૽ૺઌ૽૽ઌ૱ઌ૱ઌ૱ઌ૱ઌ૱ઌ૱ઌ૱ઌ૱ઌ ૡઌ૽ૢ૽૱ઌ૱ઌ૱ઌૺ૱ઌ૽૽ઌ૱ઌ૱ઌ૱ઌ૱ઌ ઌ૽ૡૢઌ૽૽૽ૼૺૺઌૺ૱ઌ૱ઌ૽૽૽૽ઌ૱ઌ૱ઌ૱ઌ૱ઌ ૹ૽ઌૺૺૺૺૺ૾ઌ૽૽ઌ૿૽૱ઌૺ૱ઌ૽૽ઌ૽ૺ૱ઌ૽૽૱ઌ૱ઌ૱ઌ૽ૺ૱ઌ		
			280		casing	00000		
			285			0000		
)1/16" - 1/4" dia.	0000		
			290		bird's eye filter gravel	0.000		
			295		9	0000		
			_			*0. A.O.S.		

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San	iple	(lbs.) Blows /foot	Depth					to sandy gravel								
NR	R	(6"/12"/18")	(feet)	Well Construction	n	Lithology	USCS	Description								
			200	[:::: <u>]</u> ::::1												
			300				GW	Sandy GRAVEL as @ 295 ft								
			305				SW/GW	SAND with gravel: sand is mostly fine to medium grained, subangular, with								
			310			G 60 6 6		mostly quartz & volcanics; some lithic fragments; gravel as above SAND: fine to coarse grained, subangular, with lithic								
							SW	fragments								
			315		l2 1/4"	00000		Sandy GRAVEL: gravel mostly fine grained, subrounded								
			320		liameter	0000		to angular fragments of dark igneous composition; sand is fine to coarse grained, subangular, mostly quartz and								
				1 1	verdrill orehole	00000	GW	other igneous(?) rock fragments								
			325			6000										
			330			** 4 U S CS		SAND: fine to coarse grained, subangular, with lithic								
			335		338		sw	fragments similar to that @ 310 ft								
			333			338	338	338	338							
			340	E E E E E E E E E E E E E E E E E E E	BOS		GW	Sandy GRAVEL as @ 315 ft to 330 ft								
			 345			,0 d 0 0 d										
			350													
			355													
			360	\	9 7/8"											
			300	/ d	liameter											
			365		pilot borehole					pilot borehole					SW	SAND: fine to coarse grained, subangular, with lithic
			370						fragments similar to that @ 330 ft to 340 ft							
			375		Pilot borehole backfilled with overdrill debris	backfilled with										
			380				backfilled with	backfilled with								
			385													
								Total depth of pilot boring 390 feet below surface grade								
			390													
			395													
			_													